



REPLACEMENT SHEET

Figure 1A

	1	60
SEQ ID NO:2	-----	
SEQ ID NO:4	RAAQAQRNKGKQPPEEQKLASVSLP--LPHSRFIPFPPIRRYRRR--RTHACPG----I	
SEQ ID NO:6	-----	
SEQ ID NO:8	HSSYTKSRSSLAQPRAAPRQAQPPP--ATAACACERSPRPGDQRRGGLRAFRCAAAAGFV	
SEQ ID NO:10	-----	
SEQ ID NO:12	RCS---RRWTCSSPPPTPTRSRSPRRT	
SEQ ID NO:14	-----	
SEQ ID NO:16	-----	
SEQ ID NO:18	-----	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
SEQ ID NO:23	-----	
SEQ ID NO:24	MNTGGR-----	
SEQ ID NO:25	-----	
SEQ ID NO:26	MASTPPQTSKKVRNNSGSGQTVKFARRTSSGRYVSLR--RDNIELSGELSGDYSNYTVHIP	
SEQ ID NO:27	-----	
SEQ ID NO:28	-----	
SEQ ID NO:29	R---PR-----	
	61	120
SEQ ID NO:2	-----	
SEQ ID NO:4	W-RSGSARG---ME-ASAGLVAGSHNRNELV-VIRRDGEPGPKP--MDQRNGQVCQI--	
SEQ ID NO:6	-----	
SEQ ID NO:8	RERDPAGRGGGPEME-ASAGLVAGSHNRNELV-VIRRDRESGAAGGGAARRAEAPCQI--	
SEQ ID NO:10	-----ME-ASAGLVAGSHNRNELV-VIRRDGDGPGPKP--PREQNGQVCQI--	
SEQ ID NO:12	-----C-----	
SEQ ID NO:14	-----ME-ASAGLVAGSHNRNELV-VIHGHEEP--KA--LKNLDGQVCQI--	
SEQ ID NO:16	-----	
SEQ ID NO:18	-----	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
SEQ ID NO:23	-----ME-ASAGLVAGSYRRNELV-RIRHESDGGTKP--LKNMNGQICQI--	
SEQ ID NO:24	-----LIAGSHNRNEFV-LI--NADESARIRSVQELSGQTCQI--	
SEQ ID NO:25	-----	
SEQ ID NO:26	PTPDNQPMATKAEEQYVSNLSFTGGFNSVTRAHLMDKVIDSDVTHPQMAGAKGSSCAMP	
SEQ ID NO:27	-----ME-ASAGLVAGSHNRNELV-VIHNHEEP--KP--LKNLDGQVCQI--	
SEQ ID NO:28	-----	
SEQ ID NO:29	-----LIAGSHNRNEFV-LI--NADENARIRSVQELSGQTCQI--	



REPLACEMENT SHEET

Figure 1B

	121	180
SEQ ID NO:2	-----	-----
SEQ ID NO:4	CGDDVGRNPDGEPFVACNECAFPICRDCYEYERREGTQNCPOCKTRFKRLKGCARVPGD-	-----
SEQ ID NO:6	-----	-----
SEQ ID NO:8	CGDEVGVGFDGEPFVACNECAFPVCRACYEYERREGSQACPQCRTRYKRLKGCPRVAGD-	-----
SEQ ID NO:10	CGDDVGLAPGGDPFVACNECAFPVCRDCYEYERREGTQNCPOCKTRYKRLKGCQRTVD-	-----
SEQ ID NO:12	-----CPY-----	-----
SEQ ID NO:14	CGDGVGLTVDGDLFVACNECGFPVCRPCYEYERREGSHLCPQCKTRYKRLKGSPRVEGDD	-----
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----	-----
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----	-----
SEQ ID NO:23	CGDDVGLAETGDVDFVACNECAFPVCRPCYEYERKDGTQCCPQCKTRFRRHRGSPRVEGDE	-----
SEQ ID NO:24	CGDEIELTVSSELFVACNECAFPVCRPCYEYERREGNQACPQCKTRYKRIKGSPRVDGDD	-----
SEQ ID NO:26	CDGNVMKDERGKDVMPCECRFKICRDCFMDAQKE-TGLCPGCKEQYK-----	-----
SEQ ID NO:27	CGDQIGLTVEGDLFVACNECGFPACRPCYEYERREGTQNCPOCKTRYKRLRGSPRVEGDE	-----
SEQ ID NO:28	-----	-----
SEQ ID NO:29	CRDEIELTVDGEPFVACNECAFPVCRPCYEYERREGNQACPQCKTRFKRLKGSPRVEGD-	-----
	181	240
SEQ ID NO:2	-----	-----
SEQ ID NO:4	EEEDGVDDLENEFNWSDK---HDSQYLAESMLHAHMSYG-RGADLDGVPPQFHPNPVP	-----
SEQ ID NO:6	-----	-----
SEQ ID NO:8	EEEDGVDDLEGEFGLQDGAHEDDPQYVAESMLRAQMSYG-RGGDAH---PGFSPVPNPVP	-----
SEQ ID NO:10	EEEDGVDDLNEFNW-DG---HDSQVAESMLYGHMSYG-RGGDPNGAPQAFQLNPNPVP	-----
SEQ ID NO:12	-----	-----
SEQ ID NO:14	DEEDV-DDIEHEFNIDEQKNKHGQ---VAEAMLHGRMSYG--RGPEDDDNSQFPTPVIAG	-----
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----	-----
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----P	-----
SEQ ID NO:23	DEDDV-DDIENEFNYAQGANKARH---QRHGE---EFSSS--SRHESQIPLLTHTGHTVS	-----
SEQ ID NO:24	EEEEIDDDLEYEFD-----HGMDPEHAEEAALSSRLNTG--RGGLDSAPPG---SQIP	-----
SEQ ID NO:25	-----	-----
SEQ ID NO:26	-----IGDLDDD-----TPDYSSGALPLPAPG-----	-----
SEQ ID NO:27	DEEDI-DDIEYEFNIEHEQDKHKH---SAEAMLYGKMSYG--RGPEDDENGFRFP-PVIAG	-----
SEQ ID NO:28	-----	-----
SEQ ID NO:29	EEEDDIDDLNEFEYGN---NGIGFDQVSEGMSISRRNSGFPQSDLDSAPPG---SQIP	-----



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Figure 1C

241 300

SEQ ID NO:2 -----  
SEQ ID NO:4 LLTNGQMVDDIPPDQHALVPSFV---GGGKRIHPLPYADPNLPVQPRSM DPSKDLAAYG  
SEQ ID NO:6 -----  
SEQ ID NO:8 LLTNGQMVDDIPPEQHALVPSYMSGGGGGGKRIHPLPFADPNLPVQPRSM DPSKDLAAYG  
SEQ ID NO:10 LLTNGQMVDDIPPEQHALVPSFM---GGGKRIHPLPYADPSLPVQPRSM DPSKDLAAYG  
SEQ ID NO:12 -----  
SEQ ID NO:14 GRSR-----PVSGEFFISSNAYGDQMLSSSLHKRVHPYPVSEPGSARW-----DEKKXDG  
SEQ ID NO:16 -----  
SEQ ID NO:18 -----  
SEQ ID NO:20 -----  
SEQ ID NO:22 LLTNGQMVDDIPPEQHALVPSYMSGGGGGGKRIHPLPFADPNLPVQPRSM DPSKDLAAYG  
SEQ ID NO:23 GEIRTPDTQSVRTTSGPLGPSDRNAISSPYIDPR-QPVPVRIVDPSK-----DLNSYG  
SEQ ID NO:24 LLTYCDEDADMYSDRHALIV--PS-TGYGNRVYPAPFTDSSAPPQARSMPQKDIAEYG  
SEQ ID NO:25 -----  
SEQ ID NO:26 -----KDQRGNNNNMSMMKRNGEFDHNRWLF-----ETQGTYG  
SEQ ID NO:27 GHS-----GEFPVGG-GYGNG--EHGLHKRVHPYPSSEAGS-----EGG  
SEQ ID NO:28 -----  
SEQ ID NO:29 LLTYGDEDVEISSDRHALIV--PSLGGHGNRVHPVSLSDPTVAHRRLMVPQKDLAVYG

301 360

SEQ ID NO:2 -----  
SEQ ID NO:4 YGSVAWKERMESWKQKQ-ERMHQTRNDGGGD-----DGDDADLPLM-DEARQPLSR  
SEQ ID NO:6 -----  
SEQ ID NO:8 YGSVAWKERMEGWKQKQ-ERLQHVRSEGGGDW-----DGDDADLPLM-DEARQPLSR  
SEQ ID NO:10 YGSVAWKERMENWKQRQ-ERMHQTGNDGGGD-----DGDDADLPLM-DEARQQLSR  
SEQ ID NO:12 -----  
SEQ ID NO:14 -----WKDRMDDWKLOQG-----NLGPEPDEDPAAML-DEARQPLSR  
SEQ ID NO:16 -----  
SEQ ID NO:18 -----HE-----  
SEQ ID NO:20 -----  
SEQ ID NO:22 YGSVAWKERMEGWKQKQ-ERLQHVRSEGGGDW-----DGDDADLPLM-DEARQPLSR  
SEQ ID NO:23 LGNVDWKERVEGWKLKQEKMLQMTGKYHEGKGG-EIEGTGSNGEELQM-ADDTRLPMR  
SEQ ID NO:24 YGSVAWKDRMEVWKRRQGEKLQVIKHEGGNNGRGSN-DDDELDDPDMPMM-DEGRQPLSR  
SEQ ID NO:25 -----  
SEQ ID NO:26 YGNAYWP-----QDEMYGD-----DMDEGMRGGMVETADKPWRPLSR  
SEQ ID NO:27 -----WRERMDDWKLOHG-----NLGPEPDDDPGLI-DEARQPLSR  
SEQ ID NO:28 -----  
SEQ ID NO:29 YGSVAWKDRMEEWKRKQNEKLQVVRHEGDP-----DFEDGDDADFPMM-DEGRQPLSM



REPLACEMENT SHEET

Figure 1D

	361	420
SEQ ID NO:2	-----	-----
SEQ ID NO:4	KIPLPSSQINPYRMIIIRLVVLCFFFHYRVMHPVDPDAFALWLISVICEIWFAMSWILDQ	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	KVPISSSRINPYRMIIIVIRLVVLGFFFHYRVMHPAKDAFALWLISVICEIWFAMSWILDQ	
SEQ ID NO:10	KIPLPSSQINPYRMIIIRLVVVLGFFFHYRVMHPVNDAFALWLISVICEIWFAMSWILDQ	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	KVPIASSKINPYRMVIVARLVILAFFLRYRLMNPVHDALGLWLTSIICEIWFAFSWILDQ	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	-----LHPVNDAYGLWLTSVICEIWFASWIMDQ	
SEQ ID NO:20	-----	-----
SEQ ID NO:22	KVPISSSRINPYRMIIIVIRLVVLGFFFHYRVMHPAKDAFALWLISVICEIWFAMSCILDQ	
SEQ ID NO:23	VVPIPSSRLTPYRVVILRLIILCFFLQYRTTHPVKNAYPLWLTSVICEIWFASWLLDQ	
SEQ ID NO:24	KLPIRSSRINPYRMLILCRLAILGLFFHYRILHPVNDAYGLWLTSVICEIWFASWILDQ	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	RIPIPAAIISPYRLLIVIRFVVLCTWRIRNPNEAIWLWLMSIICELWFGFSWILDQ	
SEQ ID NO:27	KVPIASSKINPYRMVIVARLVILAVFLRYRLNPNVHDALGLWLTSVICEIWFASWILDQ	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	KIPIKSSKINPYRMLIVLRLVILGLFFHYRILHPVKDAYALWLISVICEIWFASWVLDQ	
	421	480
SEQ ID NO:2	-----	-----
SEQ ID NO:4	FPKWFPIERETYLDRLSLRFDKEGHPS-----QLAPVDFFVSTVDPLKEPPLVTANTVLS	
SEQ ID NO:6	-----	-----
SEQ ID NO:8	FPKWLPPIERETYLDRLSLRFDKEGQPS-----QLAPIDFFVSTVDPTKEPPLVTANTVLS	
SEQ ID NO:10	FPKWFPPIERETYLDRLSLRFDKEGQPS-----QLAPIDFFVSTVDPLKEPPLVTNTVLS	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	FPKWFPIDRETYLDRLSIRYEREGEPN-----MLAPVDVFFVSTVDPKEPPLVTANTVLS	
SEQ ID NO:16	-----	-----
SEQ ID NO:18	FPKWYPIQRETYLDRLSLRYEKEGKPS-----ELSSVDVFFVSTVDPKEPPLITANTVLS	
SEQ ID NO:20	-----	-----
SEQ ID NO:22	FPKWFPPIERETYLDRLSLRFDKEGQPS-----QLAPIDFFVSTVDPTKEPPLVTANTVLS	
SEQ ID NO:23	FPKWYPINRETYLDRLAIRYDRDGEPS-----QLVPVDVFFVSTVDPLKEPPLVTANTVLS	
SEQ ID NO:24	FPKWYPIERETYLDRLSLRYEKEGKPS-----GLAPVDVFFVSTVDPLKEPPLITANTVLS	
SEQ ID NO:25	-----	-----
SEQ ID NO:26	IPKLCPINRSTDLEVLRLDKFDMPSNPTGRSDLPIDLVSTADPEKEPPLVTANTVLS	
SEQ ID NO:27	FPKWFPPIERETYLDRLSLRYEREGEPN-----MLAPVDVFFVSTVDPLKEPPLVTSNTVLS	
SEQ ID NO:28	-----	-----
SEQ ID NO:29	FPKWYPIERETYLDRLSLRYEKEGKPS-----GLSPVDVFFVSTVDPLKEPPLITANTVLS	



REPLACEMENT SHEET

Figure 1E

481 540

SEQ ID NO:2 -----

SEQ ID NO:4 ILSVDYPVDKVCYVSDDGAAMLTFEALSETSEFAKKWVPFCKRYSLEPRAPEWYFQQ--

SEQ ID NO:6 -----H-----

SEQ ID NO:8 ILSVDYPVEKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFSKKFNIEPRAPEWYFQQ--

SEQ ID NO:10 ILSVDYPVDKVCYVSDDGAAMLTFEALSETSEFAKKWVPFCKRYNIEPRAPEWYFQQ--

SEQ ID NO:12 ILAAGYPAGKVTCYISDDAGAEVTRNAVVEAARFAALWVSFCRKHGVEPRNLEAYFNAGE

SEQ ID NO:14 ILAMDYPVDKISCYISDDGASMCTFESLSETAEFARKWVPFCKKFSIEPRAPEMYFSE--

SEQ ID NO:16 -----

SEQ ID NO:18 ILAVDYPVDKVACYVSDDGAAMLTFEALSETSEFARRWVPFCKKYNIEPRAPEWYFGQ--

SEQ ID NO:20 -----

SEQ ID NO:22 ILSVDYPVEKVSCYVSDDGAAMLTFEALSETSEFAKKWVPFSKKFNIEPRAPEWYFQQ--

SEQ ID NO:23 ILSVDYPVDKVACYVSDDGSAMLTFEALSETAEFAKKWVPFCKKFNIEPRAPEFYFAQ--

SEQ ID NO:24 ILAVDYPVDKVACYVSDDGAAMLTFEALSDTAEFARKWVPFCKKFNIEPRAPEWYFSQ--

SEQ ID NO:25 -----RRWVPFCKKHNEPRAPEFYFNE--

SEQ ID NO:26 ILAVDYPVEKVSCYLSDDGGALLSFEAMAEASFADLWVPFCKRKHNIEPRNPDSYFSL--

SEQ ID NO:27 ILAMDYPVEKISCYVSDDGASMLTFESLSETAEFARKWVPFCKKFSIEPRAPEMYFTL--

SEQ ID NO:28 ----DYPVEKVSCYVSDDGAAMLTFEALSETSEFARKWVPFCKKYNIEPRAPEWYFAQ--

SEQ ID NO:29 ILAVDYPVDKVACYVSDDGAAMLTFEALSETAEFARKWVPFCKKYCIEPRAPEWYFCH--

541 600

SEQ ID NO:2 -----

SEQ ID NO:4 -----KIDYLDKDKVAPNFVRERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:6 -----

SEQ ID NO:8 -----KIDYLDKDKVAASFVRERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:10 -----KIDYLDKDKVAANFVRERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:12 GGGGKAKVVARGSY-RGMAWPELVRDRRRVRREYEEMRLRIDALQAADARRR-----

SEQ ID NO:14 -----KIDYLDKDKVQPTFVKERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:16 -----AKAQ-----

SEQ ID NO:18 -----KMDYLKNKVHPAFVRERRAMKRDYEEFKVRINSLVATAQ-----

SEQ ID NO:20 -----

SEQ ID NO:22 -----KIDYLDKDKVAASFVRERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:23 -----KIDYLDKDKIQPSFVKERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:24 -----KMDYLKNKVHPAFVRERRAMKRDYEEFKVKINALVATAQ-----

SEQ ID NO:25 -----KIDYLDKDKVHPSFVKERRAMKREYEEFKVRINALVAKAQ-----

SEQ ID NO:26 -----KIDPTKNKSRIDFVKDRRKIKREYDEFKVRINGLPDSIRRRSDAFNAREE

SEQ ID NO:27 -----KVDYLQDKVHPTFVKERRAMKREYEEFKVRINAQVAKAS-----

SEQ ID NO:28 -----KIDYLDKDKVQTSFVKERRAMKREYEEFKVRVNLVAKAQ-----

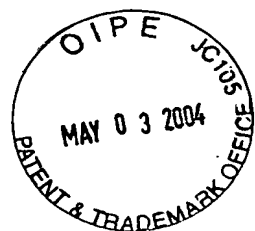
SEQ ID NO:29 -----KMDYLKNKVHPAFVRERRAMKRDYEEFKVKINALVATAQ-----



REPLACEMENT SHEET

Figure 1F

	601	660
SEQ ID NO:2	-----	-----
SEQ ID NO:4	-----KVPEEGWTMQDGTWPWG-----	-----NNVRDHPGMIQVFL----
SEQ ID NO:6	-----	-----
SEQ ID NO:8	-----KVPEEGWTMQDGSPWPG-----	-----NNVRDHPGMIQVFL----
SEQ ID NO:10	-----KVPEEGWTMQDGTWPWG-----	-----NNVRDHPGMIQVFL----
SEQ ID NO:12	-----	-----RRGAADDHAGVVQVLIDFA
SEQ ID NO:14	-----KVPQGGWIMQDGTWPWG-----	-----NNTKDHPGMIQVFL----
SEQ ID NO:16	-----KMPEEGWTMQDGTWPWG-----	-----NNPRDHPGMIQVFL----
SEQ ID NO:18	-----KVPEDGWTMQDGTWPWG-----	-----NNVRDHPGMIQVFL----
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----KVPEEGWTMQDGSPWPG-----	-----
SEQ ID NO:23	-----KIPEEGWTMQDGTWPWG-----	-----NNTRDHPGMIQVFL----
SEQ ID NO:24	-----KVPEEGWTMQDGTWPWG-----	-----NNVRDHPGMIQVFL----
SEQ ID NO:25	-----KKPEEGWVMQDGTWPWG-----	-----NNTRDHPGMIQVYL----
SEQ ID NO:26	MKALKQMRESGGDPTEPVKVPKATW-MADGTHWPGTWAASTREHSKGDHAGILQVMLKPP	
SEQ ID NO:27	-----KVPLEGWIMQDGTWPWG-----	-----NNTKDHPGMIQVFL----
SEQ ID NO:28	-----KVPEEGWIMQDGTWPWG-----	-----NNTRDHPGMIQVFL----
SEQ ID NO:29	-----KVPEDGWTMQDGTWPWG-----	-----NSVRDHPGMIQVFL----
	661	720
SEQ ID NO:2	-----	-----
SEQ ID NO:4	-----G-QSGGHDVE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:6	-----	-----
SEQ ID NO:8	-----G-QSGGRDVE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLSNA
SEQ ID NO:10	-----G-QSGGLDCE-----	-----GNELPRLVYVSREKRPGYNHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:12	GSVPQLGVANGSKLIDVASVDVCLPALVYVCREKRRGHAHHRKAGAMNA-----	
SEQ ID NO:14	-----G-SSGGLDTE-----	-----GNQLPRLVYVSREKRPGFQHHKKAGAMNALVRVSAVLTNA
SEQ ID NO:16	-----G-HSGGLDTD-----	-----GNELPRLVYVSREKRPGFQHHKKAGAMNALIRVSAVLTNG
SEQ ID NO:18	-----G-QDGVRDVE-----	-----GNELPRLVYVSREKRPGFDHHKKAGAMNALVRASAIITNA
SEQ ID NO:20	-----	-----
SEQ ID NO:22	-----	-----
SEQ ID NO:23	-----G-HSGGLDTD-----	-----GNELPRLIYVSREKRPGFQHHKKAGAMNALIRVSAVLTNG
SEQ ID NO:24	-----G-HSGVRDTD-----	-----GNELPRLVYVSREKRPGFDHHKKAGAMNSLIRVSAVLSNA
SEQ ID NO:25	-----G-SAGALDVD-----	-----GKELPRLVYVSREKRPGYQHHKKAGAENALVRVSAVLTNA
SEQ ID NO:26	SSDPLIG-NSDDKVIDFSDTDTRLPMFVYVSREKRPGYDHNKKAGAMNALVRASAILSNG	
SEQ ID NO:27	-----G-HSGGFDVE-----	-----GHELPRVYVSREKRPGFQHHKKAGAMNALVRVAGVLTNA
SEQ ID NO:28	-----G-QSGGLDAE-----	-----GNELPRLVYVSREKRPGFQHHKKAGAMNALVRVSAVLTNG
SEQ ID NO:29	-----G-SDGVRDVE-----	-----NNELPRLVYVSREKRPGFDHHKKAGAMNSLIRVSGVLSNA



REPLACEMENT SHEET

Figure 1G

	721	780
SEQ ID NO: 2	-----	-----
SEQ ID NO: 4	PYLLNLDCDHYINNSKAIKEAMCFMMDPLLGGK-----	VCYVQFPQRFDGIDRHDRYAN
SEQ ID NO: 6	-----	-----
SEQ ID NO: 8	AYLLNLDCDHYINNSKAIKEAMCFMMDPLVGK-----	VCYVQFPQRFDGIDKNDRYAN
SEQ ID NO: 10	PYLLNLDCDHYINNSKAIKEAMCFMMDPLLGGK-----	VCYVQFPQRFDGIDRHDRYAN
SEQ ID NO: 12	PFILDLDCDYVNNSQLRAGICFMIERGGGGAEDAGAVAFVQFPQRFVDGVDPGDRYAN	
SEQ ID NO: 14	PFMLNLDCDHYVNNSKAAREAMCFLMDPQTGKK-----	VCYVQFPQRFDGIDTHDRYAN
SEQ ID NO: 16	AYLLNVDCDHYFNNSKALKEAMCFMMDPVLGKK-----	TCYVQFPQRFDGIDLHDRYAN
SEQ ID NO: 18	PYLLNVDCDHYINNSKALREAMCFMMDPQLGKK-----	VCYVQFPQRFDGIDRHDRYSN
SEQ ID NO: 20	-----EAMCFLMDPNLGPQ-----	VCYVQFPQRFDGIDRNDRYAN
SEQ ID NO: 22	-----	-----
SEQ ID NO: 23	AYLLNVDCDHYFNNSKAIKEAMCFMMDPAIGKK-----	CCYVQFPQRFDGIDLHDRYAN
SEQ ID NO: 24	PYLLNVDCDHYINNSKAIRESMCFMMDPQSGKK-----	VCYVQFPQRFDGIDRHDRYSN
SEQ ID NO: 25	PFILNLDCDHYINNSKAMREAMCFLMDPQFGKK-----	LCYVQFPQRFDGIDRHDRYAN
SEQ ID NO: 26	PFILNLDCDHYIYNCKAVREGMCFMMDRG-GED-----	ICYIQFPQRFEGIDPSDRYAN
SEQ ID NO: 27	PFMLNLDCDHYVNNSKAVREAMCFLMDPQIGKK-----	VCYVQFPQRFDGIDTNDRYAN
SEQ ID NO: 28	AFLLNLDCDHYINNSKALREAMCFLMDPNLGKQ-----	VCYVQFPQRFDGIDRNDRYAN
SEQ ID NO: 29	PYLLNVDCDHYINNSKALREAMCFMMDPQSGKK-----	ICYVQFPQRFDGIDRHDRYSN
	781	840
SEQ ID NO: 2	-----	-----
SEQ ID NO: 4	RNVVFFDINMKGLDGIQGPIYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCI
SEQ ID NO: 6	-----	-----
SEQ ID NO: 8	RNVVFFDINMKGLDGIQGPIYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCL
SEQ ID NO: 10	RNVVFFDINMKGLDGIQGPIYVGTGCVFRRQALYGYDAP---	KTKKPPSRTCNCWPKWCF
SEQ ID NO: 12	HNRVLFDC TELGLDGLQGPIYVGTGCLFRRVALYSVDLPR-----	
SEQ ID NO: 14	RNTVFFDINMKGLDGIQGPVYVGTGCVFRRQALYGYNPPKGP--	RPKMVSCDC-----
SEQ ID NO: 16	RNIVFFDINMKGQDGVQGPVYVGTGCCFNQALYGYDPVLTEEDLE-----	PNIIIV
SEQ ID NO: 18	RNVVFFDINMKGLDGIQGPIYVGTGCVFRRYALYGYDAP---	AKKKPPSKTCNCWPKWCC
SEQ ID NO: 20	RNTVFFDINLRGLDGIQGPVYVGTGCVFNRTAIYGYEPPIKAK--	K-----PGFLA
SEQ ID NO: 22	-----	-----
SEQ ID NO: 23	RNIVFFDINMKGLDGIQGPVYVGTGCCFNQALYGYDPVLTEEDLE-----	PNIIIV
SEQ ID NO: 24	RNVVFFDINMKGLDGIQGPIYVGTGCVFRRQALYGFDA-----	KKKKPPGKTCNCWPKWCC
SEQ ID NO: 25	RNVVFFDINMLGLDGLQGPIYVGTGCVFNQALYGYDPPVSEKRPK--	MTCDCWPSWCC
SEQ ID NO: 26	NNTVFFDGNMRALDGVQGPVYVGTGTMFRRFALYGFDP-----	
SEQ ID NO: 27	RNTVFFDINMKGLDGIQGPVYVGTGCVFKRQALYGYEPPKGP--	RPKMISCGC-----
SEQ ID NO: 28	RNTVFFDINLRGLDGIQGPVYVGTGCVFNRTALYGYEPLPKPHRK-----	TGILS
SEQ ID NO: 29	RNVVFFDINMKGLDGLQGPIYVGTGCVFRRQALYGFDA-----	KKKKGPRKTCNCWPKWCL



REPLACEMENT SHEET

Figure 1H

	841	900
SEQ ID NO:2	-----	-----
SEQ ID NO:4	CCCCFGNRKTKKTKTSKP-----	KFEKIKKLF-KKKENQAPAYALGEIDEA--APG-
SEQ ID NO:6	-----	-----
SEQ ID NO:8	SCCC--SRNKNKKKTTKP-----	KTEKKKRLFFKKAENPSPAYALGEIDEG--APG-
SEQ ID NO:10	CCCCFGNRKQKK---TTKP-----	KTEKKKLLFFKKEENQSPAYALGEIDEA--APG-
SEQ ID NO:12	-----	-----
SEQ ID NO:14	-CPCFGSRKKYKE-----	-----KNDANGEAASLKG
SEQ ID NO:16	-KSCCGSRKKGKGGNKK-----	YS-DKKKAMGR--TESTVPIFNMEDIEEGVEG--Y
SEQ ID NO:18	LCC--GSRKKKN---ANS-----	KKEKKRKV--KHSEASKQIHALENIEAGN--EG-
SEQ ID NO:20	-SLCXG-KKKASKSKKR-----	SSDKKKS NKH--VDSSVPVFNLEDIEEGVEGAGF
SEQ ID NO:22	-----	-----
SEQ ID NO:23	-KSCCGSRKKGKSS-KK-----	YNYEKRRGINR--SDSNAPLFNMEDIDEGFEG--Y
SEQ ID NO:24	LCC--GLRKKSK---T-----	KAKDKKT--NTKETSKQIHALENVDEGVIVPV-
SEQ ID NO:25	-CCCGSRKKSKKKGKGLGGLLYGKKKMMGKNYVKKGSAPVFDLEEIEEGLEG--Y	
SEQ ID NO:26	-----NPDKLLEKKESETEALTTSDFDPLDVTQLPKRFGNSTLL-----	AESIP I
SEQ ID NO:27	-CPCFGRRRKNKK-----	-----FSKNDMNGDVAALGG
SEQ ID NO:28	-SLCGSRKKSKSSSKK-----	GSDKKKSGKH--VDSTVPVFNLEDIEEGVEGAGF
SEQ ID NO:29	LCF--GSRKNRK---AKT-----	VAADKKK--KNREASKQIHALENIEEGRGHKV-
	901	960
SEQ ID NO:2	-----	-----
SEQ ID NO:4	AENEKASIVNQKLEKKFGQSSVFVASTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:6	-----	-----ET
SEQ ID NO:8	ADIEKAGIVNQKLEKKFGQSSVFVASTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:10	AENEKAGIVNQKLEKKFGQSSVFTSTLLENGGTLKSASPASLLKEAIHVISCGYEDKT	
SEQ ID NO:12	-----	-----
SEQ ID NO:14	MDDDKEVLMSQMFEEKFGQSSIFVTSTLMEEGVPPSSSPAALLKEAIHVISCGYEDKT	
SEQ ID NO:16	DD-ERTLLMSQKSLEKRFQSPVFIAATFMEQGGIPPSTNPATLLKEAIHVISCGYEDKT	
SEQ ID NO:18	TNNEKTSNLTQTKLEKRFQSPVFVASTLLDDGGVPHGVSPASLLKEAIQVISCGYEDKT	
SEQ ID NO:20	DD-EKSVLMSQMSLEKRFQSAAFVASTLMEYGGVPQSSTPESLLKEAIHVISCGYEDKS	
SEQ ID NO:22	-----	-----
SEQ ID NO:23	DD-ERSILMSQRSVEKRFQSPVFIAATFMEQGGIPPTNPATLLKEAIHVISCGYEDKT	
SEQ ID NO:24	SNVEKRSEATQLKLEKKFGQSPVFVASAVLQNGGVPRNASPACLLREAIQVISCGYEDKT	
SEQ ID NO:25	EELEKSTLMSQKNFEKRFQSPVFIASTLMENGGLPEGTNSTSLIKEAIHVISCGYEEKT	
SEQ ID NO:26	AEFQGRPLADHPAV--KYGRPP---GALR---VPRDPLDATTVAESVSVISCWYEDKT	
SEQ ID NO:27	AEGDKEHLMFEMNFEKTFGQSSIFVTSTLMEEGVPPSSSPAALLKEAIHVISCGYEDKT	
SEQ ID NO:28	DD-EKSLMSQMSLEKRFQSAVFASTLMENGGVQSATPETLLKEAIHVISCGYEDKT	
SEQ ID NO:29	LNVEQSTEAMQMKLQKKYQSPVFVASARLENGGMARNASPACLLKEAIQVIRGYEDKT	

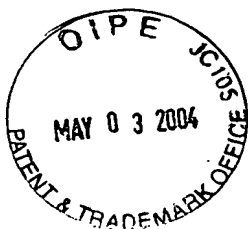




REPLACEMENT SHEET

Figure 11

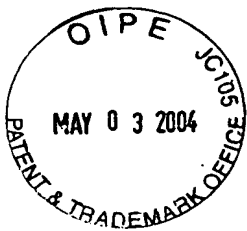
	961	1020
SEQ ID NO:2	-----HEDILTGFKMHARGWISIYCMPPRPFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:4	GWGKDIGWIYGSVTEDILTGFKMHCHGWRSIYCI PKRAAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:6	EWGKEIGWIYGSVTEDILTGFKMHCRGWKSVYCTPTRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:8	DWGKEIGWIYGSITEDILTGFKMHCHGWRSIYCI PKRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:10	DWGKEIGWIYGSVTEDILTGFKMHCHGWRSIYCI PKRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:12	-----WRP-----RRSL	
SEQ ID NO:14	EWGLELGWIYGSITEDILTGFKMHCRGWRSIYCM PKRAAFKGTAPINLSDRLNQVLRWAL	
SEQ ID NO:16	EWGKEIGWIYGSVTEDILTGFKMHARGWISIYCMPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:18	EWGKEVGWIYGSVTEDILTGFKMHCHGWRSVYCI PKRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:20	EWGTEIGWIYGSVTEDILTGFKMHARGWRSIYCM PKRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:22	-----	
SEQ ID NO:23	EWGKEIGWIYGSVTEDILTGFKMHARGWISIYCNPPRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:24	EWGKEIGWIYGSVTEDILTGFKMHCHGWRSVYCM PKRAAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:25	EWGKEIGWIYGSVTEDILTGFKMHCRGWKSVYCV PKRPAFKGSAPINLSDRLHQVLRWAL	
SEQ ID NO:26	EWGDRVGWIIYGSVTEDVVTGYRMHNRGWRSVYCI TKRDSFRGSAPINLTDRLHQVLRWAT	
SEQ ID NO:27	EWGTELGWIYGSITEDILTGFKMHCRGWRSIYCM PKRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:28	DWGSEIGWIYGSVTEDILTGFKMHARGWRSIYCM PKRPAFKGSAPINLSDRLNQVLRWAL	
SEQ ID NO:29	EWGKEIGWIYGSVTEDILTGSKMHSWGWRHVYCTPKLA AFKGSAPINLSDRLHQVLRWAL	
	1021	1080
SEQ ID NO:2	GSVEILFSRHCPIWYNYGG-RLKLLERMAYINTIVYPITSLPLIAYCVLPAICLLTNKFI	
SEQ ID NO:4	GSIEIFFSNHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:6	GSVEIFMSRHCPLWYAYGG-RLKWLERFAYTNTIVYPFTSIPLLAYCTIPAVCLLTGKFI	
SEQ ID NO:8	GSVEIFFSKHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:10	GSIEIFFSNHCPLWYGYGGG-LKFLERFSYINSIVYPWTSIPLLAYCTLPAICLLTGKFI	
SEQ ID NO:12	G-----CRL-----	
SEQ ID NO:14	GSIEIFFSHHCPLWYGFKEKKLKWLERFAYANTTVYPFTSIPLVAYCILPAVCLLTDKFI	
SEQ ID NO:16	GSIEIFLSRHCPLWYGYNG-KLKPLMRLAYINTIVYPFTSIPLIAYCTLPAFCLLTNKFI	
SEQ ID NO:18	GSVEIFFSRHCPIWYGYGGG-LKLLERFSYINSVVPWTSPLLLVYCTLPAICLLTGKFI	
SEQ ID NO:20	GSVEILFSRHCPLWYGYGG-RLKFLERFAYINTTIYPLTSLPLLVCILPAICLLTGKFI	
SEQ ID NO:22	-----	
SEQ ID NO:23	GSIEILLSRHCPIWYGYHG-RLRLLERIAAYINTIVYPITSIPLIAYCILPAFCLITDRFI	
SEQ ID NO:24	GSVEIFLSRHCPIWYGYGGG-LKWLERFSYINSVVPWTSPLLIVYCSLPAVCLLTGKFI	
SEQ ID NO:25	GSVEIFLSRHCPLWYGYGG-KLKWLERLAYINTIVYPFTSIPLLAYCTIPAVCLLTGKFI	
SEQ ID NO:26	GSVEIFFSRNNAI---LASKRLKFLQRLAYLNVGIYPFTSLFLILYCFLPAFSLFSGQFI	
SEQ ID NO:27	GSVEIFFSRHSPLWYGYKGGKLKWLERFAYANTTIYPFTSIPLLAYCILPAICLLTDKFI	
SEQ ID NO:28	GSVEILFSRHCPIWYGYSG-RLKWLERFAYVNTTIYPVTAIPLLMYCTLPAVCLLTNKFI	
SEQ ID NO:29	GSVEIFLSRHCPIWYGYGGG-LKWLERLSYINSVVPWTSPLLIVYCSLPAICLLTGKFI	



REPLACEMENT SHEET

Figure 1J

	1081	1140
SEQ ID NO:2	IPEISNYAGMFFILMFASIFATGILELRWSGVGIEDWWRNEQFWVIGGTS AHLFAVFQGL	
SEQ ID NO:4	TPELNNVASLWFMSLFICIFATSILEMRWSGVGIDDWWRNEQFWVIGGVSSHLFALFQGL	
SEQ ID NO:6	IPTLNNLASIWFIALFLSIIATSVLELRWSGVSIEDWWRNEQFWVIGGVSAHLFAVFQGF	
SEQ ID NO:8	TPELTNVASIWFMA LFICISVTGILEMRWSGVAIDDWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:10	TPELNNVASLWFMSLFICIFATSILEMRWSGVGIDDWWRNEQFWVIGGVSSHLFALFQGL	
SEQ ID NO:12	-----	
SEQ ID NO:14	MPPISTFAGLYFVALFSSIIATGILELKWSGVSI EEWWRNEQFWVIGGVSAHLFAVIQGL	
SEQ ID NO:16	IPEISNFASMWFILLFVSI FTTSILELRWSGVSIEDWWRNEQFWVIGGTS AHLFAVFQGL	
SEQ ID NO:18	VPEISNYASLVFMALFISIAATGILEMQWGGVSIDWWRNEQFWVIGGVSSHLFALFQGL	
SEQ ID NO:20	MPEISNLASIWFI ALFLSIFATGILEMRWSGVGIDWWRNEQFWVIGGIS AHLFAVFQGL	
SEQ ID NO:22	-----	
SEQ ID NO:23	IPEISNYASIWFI LLFISIAVTGILELRWSGVSIEDWWRNEQFWVIGGTS AHLFAVFQGL	
SEQ ID NO:24	VPEISNYAGILFMLMFISIAVTGILEMQWGGVGIDDWWRNEQFWVIGGASSHLFALFQGL	
SEQ ID NO:25	IPTLSNLT SVWFALFLSIIATGVLELRWSGVSIQDWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:26	VRTLSISFLVYLLMITICLIGLAVLEVKWSGIGLEEWWRNEQWWLISGTSSHL YAVVQGV	
SEQ ID NO:27	MPPISTFASLFFISLFMSIIVTGILELRWSGVSI EEWWRNEQFWVIGGIS AHLFAVFQGL	
SEQ ID NO:28	IPQISNLASIWFI SLFLSIFATGILKMKWNGVGIDQWWRNEQFWVIGGVSAHLFAVFQGL	
SEQ ID NO:29	VPEISNYASILFMALFSSIAITGILEMQWGKVGIDDWWRNEQFWVIGGVSAHLFALFQGL	
	1141	1200
SEQ ID NO:2	LKVLAGIDTNFTVT SKANDEDGD--FAELYVFKWTSLLIPPTTVLVINLVGMVAGISYAI	
SEQ ID NO:4	LKVIAGVDTSF TVTSKGGDD--EE-FSELYTFKWTTLLIPPTTLLLLNFIGVVAGISNAI	
SEQ ID NO:6	LKVLGGVDTSF TVTSKAAGDEADA-FGDLYLFKWTTLLVPPTTLIIINMVGIVAGVSDAV	
SEQ ID NO:8	LKV FAGIDTSF TVTSKAGDD--EE-FSELYTFKWTTLLIPPTTLLLLNFIGVVAGISNAI	
SEQ ID NO:10	LKVIAGVDTSF TVTSKGGDD--EE-FSELYTFKWTTLLIPPTTLLLLNFIGVVAGVSNAI	
SEQ ID NO:12	-----	
SEQ ID NO:14	LKVLAGIDTNFTVT SKATDDE-E--FGELYTFKWTTLLIPPTTILIIINIVGVVAGISDAI	
SEQ ID NO:16	LKVLAGIDTNFTVT SKASDEDGD--FAELYVFKWTSLLIPPTTVLVINLVGIVAGVSYAI	
SEQ ID NO:18	LKVLAGVNTNFTVT SKAADD--GE-FSELYIFKWTSLLIPPM TLLIMNIVGVVVGISDAI	
SEQ ID NO:20	LKVLAGIDTNFTVT SKANDEEGD--FAELYMFKWTTLLIPPTTILIIINMVGIVAGTSYAI	
SEQ ID NO:22	-----	
SEQ ID NO:23	LKVLAGIDTNFTVT SKATDEDGD--FAELYIFKW TALLIPPTTVLLVNLIGIVAGVSYAV	
SEQ ID NO:24	LKVLAGVNTNFTVT SKAADD--GA-FSELYIFKWTTLLIPPTTLLIINIIGVIVGVSDAI	
SEQ ID NO:25	LKVLAGVDTNFTVTAKAADDTE---FGELYLFKWTTLLIPPTTLLIILNMVGIVAGVSDAI	
SEQ ID NO:26	LKVIAGIEISFTLT TTKSGGDDNEDIYADLYIVKWSSLMIPP IIVIAMVNI IAI VVAFIRTI	
SEQ ID NO:27	LKILAGIDTNFTVT SKATDDD-D--FGELYAFKWTTLLIPPTTVLIIINIVGVVAGISDAI	
SEQ ID NO:28	LKVLAGIDTNFTVT SKASDEDGD--FAELYMFKWTTLLIPPTTLLIINLVGVVAGISYVI	
SEQ ID NO:29	LKVLAGVDTNFTVT SKAADD--GE-FSDLYLFKWTSLLIPPM TLLIINLVGVVAGVSDAI	



REPLACEMENT SHEET

Figure 1K

	1201	1260
SEQ ID NO:2	NSGYQSWGPLFGKLFSSIWVILHLYPFLKGLMGKQNRTPPTIVIVWSILLASIFSLLWVKI	
SEQ ID NO:4	NNGYESWGPLFGKLFFAFWIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:6	NNGYGSWGPLFGKLFSSFWIVHLYPFLKGLMGRQNRTPPTIVVLWSILLASIFSLLWVRI	
SEQ ID NO:8	NNGYESWGPLFGKLFFAFWIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:10	NNGYESWGPLFGKLFFAFWIVHLYPFLKGLVGRQNRTPPTIVIVWSILLASIFSLLWVRI	
SEQ ID NO:12	-----LGEDER-----LWSRM	
SEQ ID NO:14	NNGYQSWGPLFGKLFSSFWIVHLYPFLKGLMGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:16	NSGYQSWGPLFGKLFFAIWVIAHLYPFLKGLLGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:18	NNGYDSWGPLFGRLFFALWVILHLYPFLKGLLGKQDRMPTIILVWSILLASILTLLMWVRI	
SEQ ID NO:20	NSGYQSWGPLFGKLFFAFWIVHLYPFLKGLMGRQNRTPPTIVIVWAVLLASIFSLLWVRI	
SEQ ID NO:22	-----	
SEQ ID NO:23	NSGYQSWGPLFGKLFALWVIAHLYPFLKGLLGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:24	SNGYDSWGPLFGRLFFALWVIVHLYPFLKGLMGKQDKMPTIIVVWSILLASILTLLWVRI	
SEQ ID NO:25	NNGYGSWGPLFGKLFFAFWIVHLYPFLKGLMGRQNRTPPTIVVLWSILLASIFSLLWVRI	
SEQ ID NO:26	YQAVPQWSKLIGGAFFSFWVLAHLYPFAKGLMGRRGKTPTIVFVWAGLIAITISLLWTAI	
SEQ ID NO:27	NNGYQSWGPLFGKLFSSFWIVHLYPFLKGLMGRQNRTPPTIVIVWSVLLASIFSLLWVRI	
SEQ ID NO:28	NSGYQSWGPLFGKLFFAFWVIIHLYPFLKGLMGRQNRTPPTIVVWSILLASIFSLLWVRI	
SEQ ID NO:29	SNGYDSWGPLFGRLFFALWVIIHLYPFLKGLLGKQDRMPTIIVVWSILLASILTLLWVRI	

	1261	1284
SEQ ID NO:2	DPFISDTQKAVAM-GQCGVNC---	
SEQ ID NO:4	DPFLAKDDGPLL--EECGLCDN--	
SEQ ID NO:6	DPFIPKAKGPILKP-C-GVEC---	
SEQ ID NO:8	DPFLAKSNGPLL--EECGLCDN--	
SEQ ID NO:10	DPFLAKDDGPLL--EECGLCDN--	
SEQ ID NO:12	KQMVILSGPR-----	
SEQ ID NO:14	DPFVLKTKGPDTKL--CGINC---	
SEQ ID NO:16	DPFTSDSNKLT--NGQCGINC---	
SEQ ID NO:18	NPFVSRD-GPVL--EICGLNCDES	
SEQ ID NO:20	DPFTTRLAGPNI--QTCGINC---	
SEQ ID NO:22	-----	
SEQ ID NO:23	NPFVDANPNANNFNGKGGVF----	
SEQ ID NO:24	NPFVAKG-GPVL--EICGLNCGN-	
SEQ ID NO:25	DPFLPKQTGPVLKQ-C-GVEC---	
SEQ ID NO:26	NP---NTGPAAAAEGVGGGGFQFP	
SEQ ID NO:27	DPFVLKTKGPDTSK--CGINC---	
SEQ ID NO:28	DPFTTRVTGPDV--EQCGINC---	
SEQ ID NO:29	NPFVAKG-GPIL--EICGLDC-	